

**Amendments to the Claims**

The following is a listing of claims currently pending in this application and their current status. This listing replaces all prior versions and listings.

1. (Currently amended) A composite video signal separation device, comprising  
a delay memory [for storing] configured to store a composite signal[,] and [configured] to output [multiple] a plurality of delayed versions of said composite signal;  
a plurality of [multiple] demodulators [,] coupled to said delay memory[,] and configured to demodulate plurality of [multiple] delayed versions of said composite signal by a sub-carrier, [generating] and to generate a plurality of [multiple] complex baseband signals;  
a vertical signal processing block[,] coupled to said plurality of [multiple] demodulators[,] and configured to process plurality of [multiple] complex baseband signals[,and configured] and to output a first separated signal;  
a modulator[,] coupled to said vertical signal processing block[,] and configured to modulate said first separated signal and to generate [,generating] a remodulated signal; and  
a subtracter [subtraction means,] coupled to said modulator and configured to subtract said remodulated signal from one of said [multiple] plurality of delayed versions of said composite signal [,generating] and to generate a second separated signal.
  
2. (Currently amended) A composite video signal separation device, comprising  
a delay memory for storing a composite signal[,] and configured to output a plurality of signals derived from [multiple delayed versions of] said composite signal;  
[multiple] a plurality of demodulators[,] coupled to said delay memory[,] and configured to demodulate plurality of signals derived from [multiple delayed versions of] said composite signal by a sub-carrier[,generating] to generate a plurality of [multiple] complex baseband signals;  
a vertical signal processor [processing block,] coupled to said plurality of [multiple demodulators,] and configured to process said [multiple] plurality of complex baseband signals, and further configured to output a first separated signal and a second separated signal;

a modulator[,] coupled to said vertical signal processor [processing block,] and configured to modulate said first separated signal[, generating] and to generate a remodulated signal; and

a subtractor [subtraction means,] coupled to said modulator and configured to subtract said remodulated signal from one of said plurality of signals derived from [multiple delayed versions of] said composite signal[, generating] and to generate a third separated signal.

3. (Currently amended) A composite video signal separation device, comprising
  - a delay memory for storing a composite signal[,] and configured to output [multiple delayed versions of] a plurality of signals derived from said composite signal;[multiple] a plurality of demodulators[,] coupled to said delay memory[,] and configured to demodulate said [multiple delayed versions of] plurality of signals derived from said composite signal by a sub-carrier[, generating multiple] and to generate a plurality of demodulated signals;[multiple] a plurality of horizontal signal processing blocks[,] coupled to said [multiple] plurality of demodulators[,] and configured to process said [multiple] plurality of demodulated signals[, generating multiple] and to generate a plurality of complex baseband signals;
  - a vertical signal [processing block,] processor coupled to said [multiple] plurality of horizontal signal processing blocks[,] and configured to process said plurality of [multiple] complex baseband signals[,] and [configured] to output a first separated signal;
  - a modulator[,] coupled to said vertical signal processing block[,] and configured to modulate said first separated signal[, generating] and to generate a remodulated signal; and
  - a subtraction device[subtraction means,] coupled to said modulator and configured to subtract said remodulated signal from one of said [multiple delayed versions of] plurality signals derived from said composite signal[, generating] and to generate a second separated signal.

4. (Currently amended) A method for composite video signal separation, comprising [the following steps]:

obtaining samples of a composite signal;  
storing said samples in a delay memory;

demodulating [multiple] a plurality of samples from said delay memory by a subcarrier to form [multiple] a plurality of complex baseband signals;

vertically processing said [multiple] plurality of complex baseband signals to form a first separated signal;

modulating said first separated signal by a subcarrier to form a remodulated signal; and

subtracting said remodulated signal from one of said samples of said composite signal to [from] form a second separated signal.

5. (Currently amended) A method for composite video signal separation, comprising [~~the following steps~~]:

obtaining samples of a composite signal;

storing said samples in a delay memory;

demodulating [multiple] a plurality of samples from said delay memory by a subcarrier to form [multiple] a plurality of complex baseband signals;

vertically processing said [multiple] plurality of complex baseband signals to form a first separated signal and a second separated signal;

modulating said first separated signal by a subcarrier to form a remodulated signal; and

subtracting said remodulated signal from one of said samples of said composite signal to [from] form a third separated signal.

6. (Currently amended) A method for composite video signal separation, comprising [~~the following steps~~]:

obtaining samples of a composite signal;

storing said samples in a delay memory;

demodulating [multiple] a plurality of samples from said delay memory by a subcarrier to form [multiple] a plurality of demodulated signals;

horizontally processing said [multiple] plurality of demodulated signals to form [multiple] a plurality of complex baseband signals;

vertically processing said [multiple] plurality of complex baseband signals to form a first separated signal;

modulating said first separated signal by a subcarrier to form a remodulated signal; and

subtracting said remodulated signal from one of said samples of said composite signal to  
[from] form a second separated signal.

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